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PATENT  
2565-0236P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: SORIMACHI, Toru et al. Conf.:  
Int'l. Appl. No.: PCT/JP00/09129  
Appl. No.: NEW Group:  
Filed: September 14, 2001 Examiner:  
For: ENCRYPTOR, ENCRYPTING METHOD,  
DECRYPTOR, DECRYPTING METHOD, AND  
COMPUTER READABLE RECORDING MEDIUM  
HAVING PROGRAM STORED THEREIN

PRELIMINARY AMENDMENT

**BOX PATENT APPLICATION**

Assistant Commissioner for Patents  
Washington, DC 20231

September 14, 2001

Sir:

The following Preliminary Amendments and Remarks are respectfully submitted in connection with the above-identified application.

AMENDMENTS

IN THE SPECIFICATION:

Please amend the specification as follows:

Before line 1, insert --This application is the national phase under 35 U.S.C. § 371 of PCT International Application No. PCT/JP00/09129 which has an International filing date of December 22, 2000, which designated the United States of America and was not published in English.--

Please replace the first paragraph on page 45, lines 3-25 continuing on page 46 lines 1-6, with the following rewritten paragraph:

--At time  $T_0$ , the key  $K_1$  is supplied from the outside as the key KI. As the switch 157 is connected to E, the key  $K_1$  is stored in the register 156. Then, the encrypting process for the plaintext block data  $M_1$  is started. When the plaintext block data  $M_1$  is started at time  $T_0$ , the selector 54 inputs an initial value IV through A, and then the selector 54 is switched to B. At time X during the encrypting process of the plaintext block data  $M_1$  using the key  $K_1$ , it is assumed that the interrupt IT for requesting to encrypt the plaintext block data  $N_1$ . Until time  $T_1$ , the ciphertext block data  $C_1$  becomes stored in the memory 55.

Then, the key  $K_2$  is supplied to the encrypting module 51 from the outside as the key KI at time  $T_1$  due to the generation of the interrupt IT. At time  $T_1$ , the input to the selector 54 is set to A. And at time  $T_1$ , the switch 57 and the switch 157 are connected to F. Accordingly, the key  $K_2$  is not stored in the register 156. After time  $T_1$ , the encryption of the plaintext block data  $N_1$  is performed using the key  $K_2$ , and the ciphertext block data  $D_1$  is output. At time Y, the encryption of the plaintext block data  $N_1$  is finished, and the interrupt IT is resolved. Due to this resolution of the interrupt IT, at time  $T_2$ , the input to the selector 54 is switched to C, and the switch 57 is connected to E. Consequently, the key  $K_1$  is output to the

Please replace the second paragraph on page 57, lines 12-25 continuing on page 58 lines 1-2, with the following rewritten paragraph:

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Docket No. 2565-0236P

REMARKS

The specification has been amended to provide a cross-reference to the previously filed International Application. The specification has also been amended to correct typographical errors.

Entry of the above amendments is earnestly solicited. An early and favorable first action on the merits is earnestly solicited.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

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JAC/rem

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Attachment: VERSION WITH MARKINGS TO SHOW CHANGES MADE